## Interstate Transmission Capability

Geothermal Transmission Workshop April 11, 2005

Ron Davis

Davis Power Consultants

# Interstate Available Transfer Capability (ATC)

#### Issues

- What is the capability of the existing interconnections to import out of state resources in 2010 and 2017 to assist in meeting the renewable penetration requirement?
- Is the California transmission infrastructure (230 kV and below) able to deliver power from the EHV to load centers?

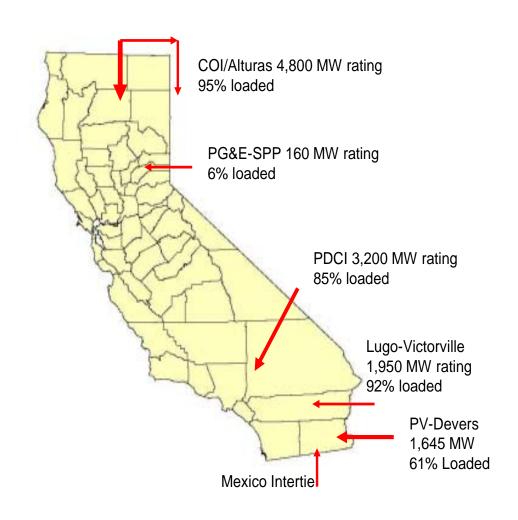
### **ATC Issues Continued**

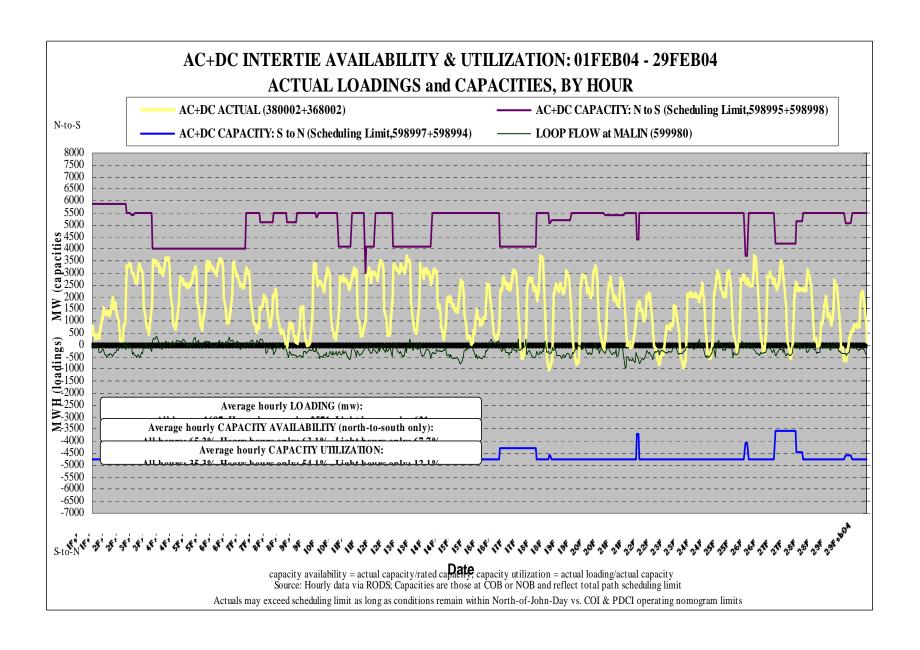
- What transmission planning studies and transmission developments need to be undertaken?
- Given the projected out-of-state renewable development that is being planned for delivery to the California border, is California able to reliability and economically import this power?

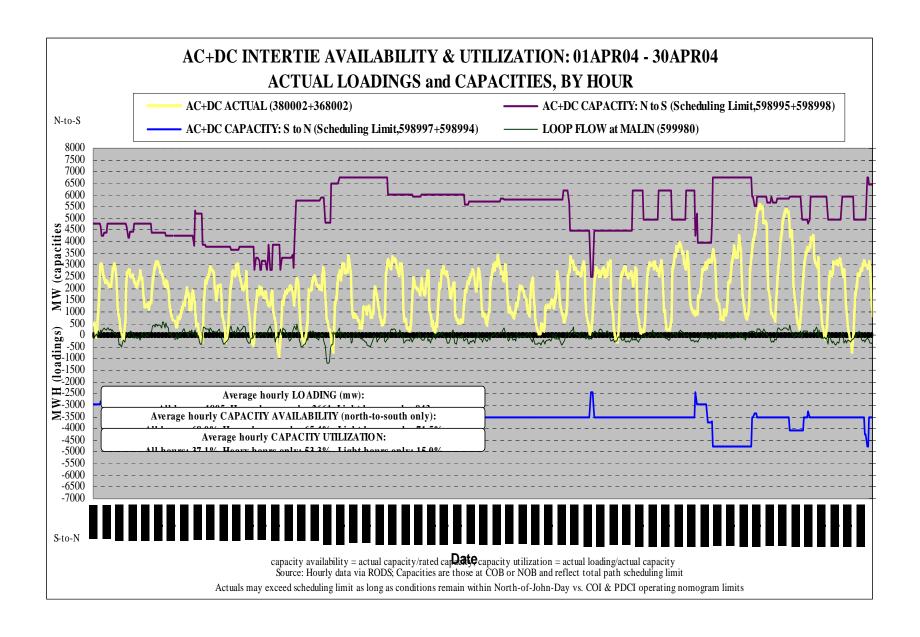
#### General Observations

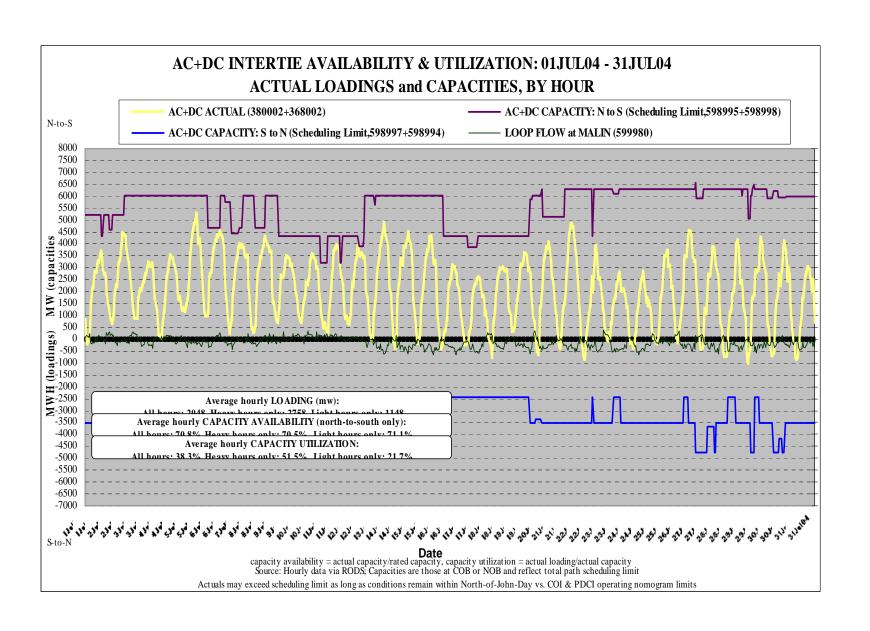
- Historically, the transmission interconnections have not been loaded to their full rating
- However, in the 2010 and 2017 transmission power flows, these interconnections are being loaded to over 90% capacity
- Little room remains for importing new power

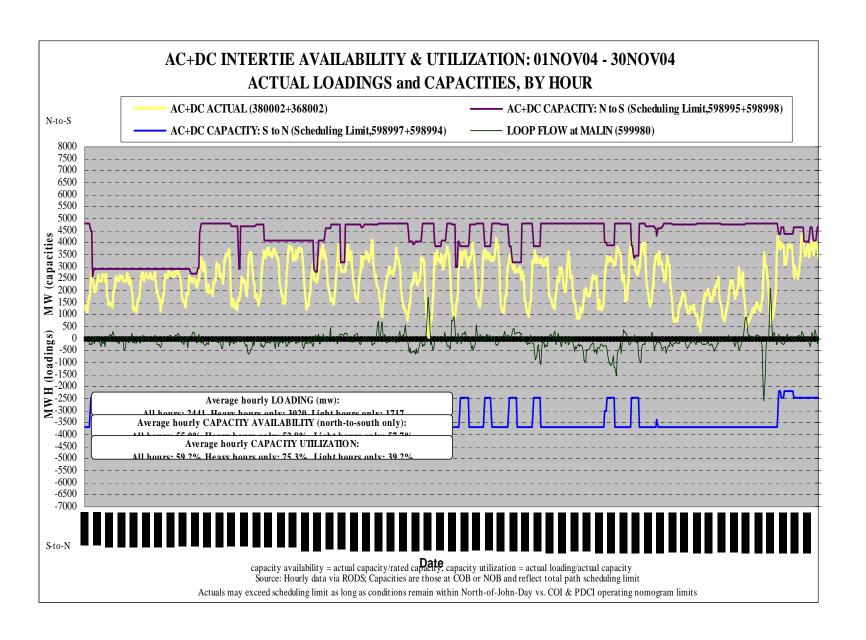
#### Projected 2010 Summer Peak Flows

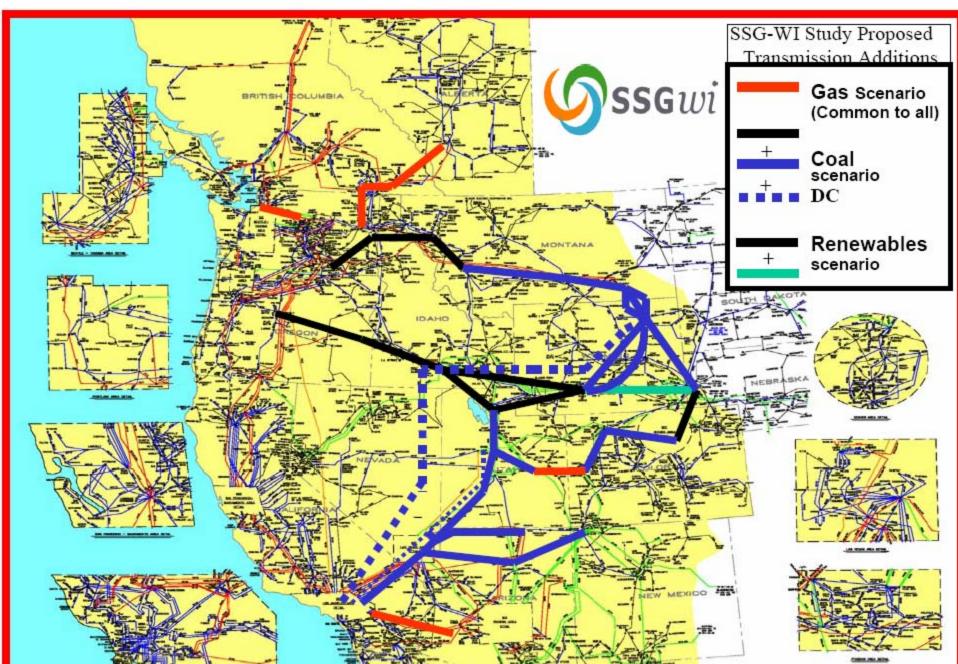












#### Presentation of Results

 DPC will be presenting its interstate transmission ATC results at the May 9, 2005 IEPR workshop